BRUHATH BANGALORE MAHANAGARA PALIKE

YALAHANKA ELECTRICAL DIVISION

E MEASUREMENT BOOK

Name of work:- Providing Energy efficent LED street lights and control switches and connected Accessories Rachenahalli areas in Ward no 6.

BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work: :- Providing Energy efficent LED street lights and control switches and connected Accessories Rachenahalli areas in Ward no 6.

Name of Contractror of nature of Agency:- M/s,Power Mac,

Job Code No:- 006-19-000030

Ref no and Date of commencement of work:-EE/YZ/WO/000029/ 2019-20Date:- 27/08/2019

Measurement Book No: Page No:

Bill NO :-

Sl. No.	Description of item	Unit	Present Measurements		
			Qty	Tender Full Rate	Cost
1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II. LED Streetlight 65watt	Nos	1	17761.54	17761.54
2	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	Nos	97	2066.49	200449.53
3	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos	97	3836.95	372184.15
1	GE/06/TC429/DL/00/01/03/02				
2	GE/06/TC428/DL/00/02/05/05	# 43 Dain Strees Layout Mariyannana Palya			
3	GE/06/TC/M/K/L12/S	Munikempanna L/o, Dasarahalli			
4	GE/06/TC/81/AL/02/05/S	Akashavani L/o, Dasarahalli			
5	GE/06/TC/DH/SR/06/S	Akashavani L/o, Dasarahalli			
6	GE/06/TC/VL/60/02/04/S	Akashavani L/o, Dasarahalli			
7	GE/06/TC/VL/00/1/01/S	Akashavani L/o, Dasarahalli			
8	GE/06/TC/WL/00/01/08/S	Akashavani L/o, Dasarahalli			
9	GE/06/TC/WL/00/02/S	Akashavani L/o, Dasarahalli			
10	GE/06/TC/T/M/R/100/S	Akashavani L/o, Dasarahalli			

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11	GE/06/TC/BN/01/00/14/S	1st Cross, Bharath Nagara 1st Cross				
12	GE/06/TC/BN/00/04/01/S	4th Cross, Bharath Nagara 1st Cross				
13	GE/06/TC/BN/00/01/04/S	1st Cross, Bharath Nagara 1st Cross				
14	GE/06/TC/BN/00/01/01/S	1st Cross, Bharath Nagara 1st Cross				
15	GE/06/TC/BN/02/05C/03/LED	2nd Cross, Bharath Nagara 1st Cross,				
16	GE/06/TC/282/SL/MR/13/S	Sarayipalya main road				
17	GE/06/TC/VL/02/00/07/S	Sarayipalya main road				
18	GE/PL//01/00/02/F	Sarayipalya main road				
19	GE/06/TC/ATR/09/0	Sarayipalya main road				
20	New Pole	Sarayipalya main road				
21	GE/06/TC/RNC/00/01/03/S	The Grand JMJ Hospital Road Near Nagawara				
22	GE/06/TC/RNC/00/09\19/S	9th Cross, Nagarawara				
23	GE/06/TC/RNC/00/01/11/S	1st Cross, Nagarawara				
24	GE/06/TC/RNC/00/07/09/S	7th Cross, Nagarawara				
25	GE/06/TC/HN/RR/13/08/S	13th Cross, Nagarawara				
26	GE/06/TC/HN/RR/041/S	15 Th RK Hegde Nagara				
27	GE/06/TC/HN/RR/039/S	Sri Anjaneya Temle Shakti Nagara				
28	GE/06/TC/HN/RR/019/S	Nazeer Chats R K Hegde Nagar				
29	GE/06/TC/HN/RR/04/S	Beera Medicals R K Hegde Nagar				
30	GE/06/TC/HN/01/02/10/S	Basha Store R K Hegde Nagar				
31	GE/06/TC/HN/02/02/08/S	Masidhi Opp R K Hegde Nagar				
32	GE/06/TC138/HN/02/00/08/S	Ganesh Temple R K Hegde Nagar				
33	GE/06/TC/HN/02/00/10/S	Sri Chowdeshwari Flour Mill R K Hegde Nagar				
34	GE/06/TC/HN/01/03/10/S	Bismilla Real Estate R K Hegde Nagar				
35	GE/06/TC/HN/1M/14/S	Indira Canteen R K Hegde Nagar				
36	GE/06/TC/HN/5C/10/S	Manju Shree Bakery R K Hegde Nagar				
37	GE/06/TC/HN/1M/08/S	R K Hegde Nagar				
38	GE/06/TC/HN/01/07/04/S	Opp Adithya Bakery R K Hegde Nagar				
39	GE/06/TC/TNS/01/00/12/S	Opp M D Medical Store R K Hegde Nagar				
40	GE/06/TC/AL/01/10/0	Arkavathi Layout Thanisandra				
41	GE/06/TC/TNS/01/00/06/F	Arkavathi Layout Thanisandra				
42	GE/06/TC/RMR/11/S					
43	New Pole	Near Krishna Upahar Rachenahalli main road				
44	GE/06/TC/RH/HR/01/S	Varsa Family Clinic Rachenahalli Main Road				
45	GE/06/TC/RH/HR/01/S	Opp Daily Fresh Bakery				
46	GE/06/TC/PL/01/00/14/F	Sri Krishna Hotel DR. SRK Nagar Rachenahalli				
47	GE/06/TC/BL/01M/07/S	Near NR Green Wood Classic				
48	GE/06/TC/BMR/01/00/04/S	Near NR Green Wood Classic				
49	GE/06/TC/BL/00/03/06/S	Near NR Green Wood Classic				
50	GE/06/TC/BL/04C/10/S					
51	GE/06/TC/BL/01c/02/S	Bhagyashree Badavane				
52	GE/06/TC/RMR/03/S	Manasa House Rachenahalli				
53	GE/06/TC121/RCR/11/S	Opp Meenakshi Estate Thanisandra				
54	GE/06/TC121/RCR/16/S	Near B S store Thanisandra Main Road				
55	GE/06/TC/MP/01/S	Opp Amruth Gardenia				
56	GE/06/TC/M/02/S	Mesthri Palya				
57	GE/06/TC/MP/01/001/10/S	4th A Cross Mesthri Palya				
58	GE/06/TC/CC/04/01/S	Opp Arvinda Sparlia Apartment				
59	GE/06/TC/HMR/43/S	Opp Paras Manyata Apartment				
60	GE/06/TC203/ML/00/07/03/S	Mcech Layout 4th Cross				

61	GE/06/TC/DMR/02/01/F	2nd Cross, Dasarahalli				
62	GE/06/TC206/HMR/49/F	Mcech Layout 6th Cross Near Karnataka Bank				
63	GE/06/TC206/HMR/31/F	No 35,36 80 Feet Road				
64	GE/06/TC/CRL/04/00/02/F	4th Main Road Central Revenue Layout				
65	GE/06/TC/ERL/05/00/04/S	4th Main Road Central Revenue Layout,				
66	GE/06/TC/CRL/05/00/01/S	5th Main Road Central Revenue Layout,				
67	GE/06/TC/ML/00/01A/02/S	5th Main Road Central Revenue Layout,				
68	GE/06/TC/ML/00/002/01/F	2nd Cross, Maruthi L/o, Dasarahalli				
69	GE/06/TC209/ML/02/00/03/F	Amantrana Apartment 2nd Cross, Maruthi L/o				
70	GE/06/TC211/ML/00/03/15/F					
71	GE/06/TC/DE/01/00/09/S	Deffence L/o, Dasarahalli				
72	GE/06/TC/01/02/01/S	Deffence L/o, Dasarahalli				
73	GE/06/TC82/ML/00/1B/07/S	1st Main, Maruthi L/o, Dasarahalli				
74	GE/06/TC/ML/10/06/S	10th Cross, Maruthi L/o, Dasarahalli				
75	GE/06/TC/ML/00/2B/06/S	2nd B Main, Maruthi L/o, Dasarahalli				
76	GE/06/TC/ML/00/12/05/S	12th Cross, Maruthi L/o, Dasarahalli				
77	GE/06/TC/157/SL/01/12/S	12th Cross, Maruthi L/o, Dasarahalli				
78	GE/06/TC/158/SL/03/12/F	12th Cross, Maruthi L/o, Dasarahalli				
79	GE/06/TC/BN/18/03/S	12th Cross, Maruthi L/o, Dasarahalli				
80	GE/06/TC/DMR/26/S	Dasarahalli main road				
81	GE/06/TC/AL/2C/02/S	2nd Cross, Akashavani L/o, Dasarahalli				
82	GE/06/TC/BN/00/01/S	Bharath Nagara Thanisandra				
83	GE/06/TC/MSR/00/08/S	M.S.Ramaiah L/o, Nagawara				
84	GE/06/TC/MSR/00/15/S	M.S.Ramaiah L/o, Nagawara				
85	GE/06/TC/PL/00/P3/06/S	M.S.Ramaiah L/o, Nagawara				
86	GE/06/TC/NSN/01/00/09/3	1st Cross, M.S.Ramaiah L/o, Nagawara				
87	GE/06/TC/NSN/03/00/02/S	3rd Cross, New Shanthi Nagara, Hegade				
88	GE/06/TC/HN/01/18/02/S	18th Cross, New Shanthi Nagara, Hegade				
89	GE/06/TC/HN/01/14/05/S	14th Cross, New Shanthi Nagara, Hegade				
90	GE/06/TC/HN/01/13/10/S	13th Cross,Hegde Nagara				
91	GE/06/TC/HN/01/12/04/S	Hegde Nagara				
92	GE/06/TC/HN/01/11/07/S	12th Cross Hegde Nagara				
93	GE/06/TC/HN/01/10/01/S	11th Cross Hegde Nagara				
94	GE/06/TC/HN/01/09/03/S	10th Cross Hegde Nagara				
95	GE/06/TC/HN/01/08/10/S	9th Cross Hegde Nagara				
96	GE/06/TC/HN/01/04//02/S	1st Main, 4th cross, Hegade Nagara				
97	GE/06/TC/NSN/01/00/04/S	1st Main, New Shanthi Nagara, Hegade Nagara				
4	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel		Nos	198	19.00	3762.00
5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 3.5 core 25 sqmm		Mtrs	348	156.00	54288.00
6	4 core 16 sqmm		Mtrs	346	133.00	46018.00
7	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 25 sqmm to 75 sqmm		Mtrs	348	16.00	5568.00
8	6 sqmm to 16 sqmm		Mtrs	346	10.25	3546.50
9	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)		Mtrs	296	74.01	21906.96

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10	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)50X50X6 mm		Mtrs	97	249.53	24204.4
11	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).		Mtrs	4993	28.46	142100.7
	GE/06/TC/HN/01/13/01/ TO GE/06/TC/HN/01/13/11 1st Main 13 th cross hegadenagar	10 spans 388 Mtrs				
	GE/06/TC/HN/01/12/01/s TO GE/06/TC/HN/01/12/11/s and 36/s 1st Main 12 th cross hegadenagar	11 span 450 Mtrs				
	GE/06/TC/HN/01/09/04/S TO GE/06/TC/HN/01/09/09/S 1st Main 9th cross hegadenagar	5 span 247 Mtrs				
	GE/06/TC/NSN/01/00/04/S TO GE/06/TC/NSN/01/00/06/S	2 span 80 Mtrs				
	GE/06/TC/NSN/00/04/01/0 TO GE/06/TC/NSN/00/04/03/0 New Shanthi Nagara	2 span 80 Mtrs				
	GE/06/TC/NSN/00/06/02/S TO GE/06/TC/NSN/00/06/04/S New Shanthi Nagara 6th crs	2 span 80 Mtrs				
	GE/06/TC/NSN/00/07/01/S TO GE/06/TC/NSN/00/06/03/S New Shanthi Nagara 7th crs	3 span 78 Mtrs				
	GE/06/TC/HN/1 A M/01/S TO GE/06/TC/HN/1 A M/04/S New Shanthi Nagara 7th crs	3 span 126 Mtrs				
	GE/06/TC/NMR/22/S TO GE/06/TC/NMR/24/S	2 span 82 Mtrs				
	GE/06/KN/3C/02/02/S TO GE/06/KN/3C/02/11/S 3rd Cross Kaveri Nagar	9 span 356 Mtrs				
	GE/03/TC/KN/00/01/01/S TO GE/03/TC/KN/00/01/09/S 1st Cross Kaveri Nagar	8 span 315 Mtrs				
	GE/06/TC/CL/00/01/S TO GE/06/TC/CL/00/08/S 2nd Cross Chowrappa Layout	7 span 281 Mtrs				
	GE/06/TC/PN/04/02/S TO GE/06/TC/PN/04/06/S	4 span 162 Mtrs				
	GE/06TC/AL/00/10/01 TO GE/06TC/AL/00/10/0 Thanisandra Appayyanna Badavane	9 span 364 Mtrs				
	GE/0/TC/WL/00/02/02/0 TO GE/0/TC/WL/00/02/16/0 Thanisandra Main Road Opp Reliance Smart	14 span 364 Mtrs				
	GE/06/TC/WL/02/01/S TO GE/06/TC/WL/02/12/S Thanisandra Main Road Wajidh Badavane	11 span 436 Mtrs				
	GE/06/TC/RMR/02/00/01/S TO GE/06/TC/RMR/02/00/05/S	5 span 199 Mtrs				
	GE/06/TC/DH/SR/01/S TO GE/06/TC/DH/SR/18/S Narayana Group of School Dasarahalli	17 span 672 Mtrs				
	GE/06/HN/SC/15/S TO GE/06/HN/SC/06S Hegade Nagara 2nd Cross	9 span 385 Mtrs				

	GE/06/TC/VL/00/01/01 TO GE/06/TC/VL/00/01/04 Dasarahalli main road	4 span 119 Mtrs				
	GE/06/TC/VL/00/02/01/S TO GE/06/TC/VL/00/05/S	4 span 120 Mtrs				
	GE/06/TC/DE/01/00/11/S TO GE/06/TC/DE/01/00/12/S Deo Enclave	1 span 42Mtrs				
	Total qty 5000 Mtrs					
12	1.1 KV Pin Insulator		Nos	171	41.75	7139.25
13	No. 8 Strain Insulator		Nos	55	13.28	730.40
14	2 Pin 45x45x5mm -510mm		Nos	161	290.33	46743.13
		Total Rs				**946402.65**

CERTIFICATE:

1. This is certify that the work done is saticefactorily.
2. This is certify that the bill amount calimed in this bill does not claimed in any

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division